



PTO/SB/21 (09-06)

Approved for use through 03/31/2007. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/750,315
	Filing Date	December 30, 2003
	First Named Inventor	Andrew A. BERLIN
	Art Unit	1634
	Examiner Name	R. T. Crow
Total Number of Pages in This Submission	Attorney Docket Number	070702007900

**ENCLOSURES (Check all that apply)**

<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please Identify below): Return Receipt Postcard Copies of IDS Citations (14 refs)
<b>Remarks</b>		

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm Name	MORRISON & FOERSTER LLP		
Signature			
Printed name	Raj S. Dave		
Date	February 9, 2007	Reg. No.	42,465



PTO/SB/17 (07-06)

Approved for use through 01/31/2007. OMB 0651-0032  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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<b>Effective on 12/08/2004.</b> <b>Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).</b> <b>FEE TRANSMITTAL</b> <b>For FY 2006</b>		<b>Complete if Known</b>	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		Application Number	10/750,315
<b>TOTAL AMOUNT OF PAYMENT</b>		Filing Date	December 30, 2003
<b>(\$)</b> 180.00		First Named Inventor	Andrew A. BERLIN
		Examiner Name	R. T. Crow
		Art Unit	1634
		Attorney Docket No.	070702007900

<b>METHOD OF PAYMENT</b> (check all that apply)	
<input type="checkbox"/> Check	<input type="checkbox"/> Credit Card
<input type="checkbox"/> Money Order	<input type="checkbox"/> None
<input type="checkbox"/> Other (please identify): _____	
<input checked="" type="checkbox"/> Deposit Account	Deposit Account Number: <u>03-1952</u> Deposit Account Name: <u>Morrison &amp; Foerster LLP</u>
For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)	
<input checked="" type="checkbox"/> Charge fee(s) indicated below	<input type="checkbox"/> Charge fee(s) indicated below, except for the filing fee
<input checked="" type="checkbox"/> Charge any additional fee(s) or underpayment of fee(s) under 37 CFR 1.16 and 1.17	<input checked="" type="checkbox"/> Credit any overpayments

<b>FEE CALCULATION</b>							
<b>1. BASIC FILING, SEARCH, AND EXAMINATION FEES</b>							
	<b>FILING FEES</b>		<b>SEARCH FEES</b>		<b>EXAMINATION FEES</b>		
		<u>Small Entity</u>		<u>Small Entity</u>		<u>Small Entity</u>	
<b>Application Type</b>	<b>Fee (\$)</b>	<b>Fee (\$)</b>	<b>Fee (\$)</b>	<b>Fee (\$)</b>	<b>Fee (\$)</b>	<b>Fee (\$)</b>	<b>Fees Paid (\$)</b>
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	
<b>2. EXCESS CLAIM FEES</b>							
						<u>Small Entity</u>	
						<b>Fee (\$)</b>	<b>Fee (\$)</b>
Each claim over 20 (including Reissues)						50	25
Each independent claim over 3 (including Reissues)						200	100
Multiple dependent claims						360	180
<b>Total Claims</b>		<b>Extra Claims</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>	<b>Multiple Dependent Claims</b>		
40 - 40 =		x	=		<b>Fee (\$)</b>		<b>Fee Paid (\$)</b>
HP = highest number of total claims paid for, if greater than 20.							
<b>Indep. Claims</b>		<b>Extra Claims</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>			
5 - 5 =		x	=				
HP = highest number of independent claims paid for, if greater than 3.							
<b>3. APPLICATION SIZE FEE</b>							
If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).							
<b>Total Sheets</b>	<b>Extra Sheets</b>	<b>Number of each additional 50 or fraction thereof</b>		<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>		
- 100 =	/50	(round up to a whole number) x		=			
<b>4. OTHER FEE(S)</b>							
Non-English Specification, \$130 fee (no small entity discount)							
Other (e.g., late filing surcharge): 1806 Submission of an Information Disclosure Statement						180.00	

<b>SUBMITTED BY</b>			
Signature		Registration No. (Attorney/Agent)	42,465
Name (Print/Type)	Raj S. Dave	Telephone	(703) 760-7755
		Date	February 9, 2007



Patent  
Docket No. 070702007900

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Andrew A. BERLIN et al.

Serial No.: 10/750,315

Filing Date: December 30, 2003

For: NUCLEIC ACID SEQUENCING BY  
RAMAN MONITORING OF  
NUCLEOTIDES DURING MOLECULAR  
REPLICATION

Examiner: R. T. Crow

Group Art Unit: 1634

**SUPPLEMENTAL INFORMATION DISCLOSURE  
STATEMENT UNDER 37 C.F.R. § 1.97 & 1.98**

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. §1.97 and § 1.98, Applicants submit for consideration in the above-identified application the documents listed on the attached Form PTO/SB/08a/b. Copies of the foreign document and non-patent literature are submitted herewith. The Examiner is requested to make these documents of record.

This Supplemental Information Disclosure Statement is submitted after receipt of a first Office Action on the merits but before mailing of a final Office Action or Notice of Allowance. A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached to this submission.

02/12/2007 SZEWDIE1 00000116 031952 10750315  
01 FC:1806 180.00 DA

Applicants would appreciate the Examiner initialing and returning the Form PTO/SB/08a/b, indicating that the information has been considered and made of record herein.

The information contained in this Supplemental Information Disclosure Statement under 37 C.F.R. § 1.97 and § 1.98 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

In the unlikely event that the transmittal form is separated from this document and the Patent and Trademark Office determines that an extension and/or other relief (such as payment of a fee under 37 C.F.R. § 1.17 (p)) is required, Applicants petition for any required relief including extensions of time and authorize the Commissioner to charge the cost of such petition and/or other fees due in connection with the filing of this document to Deposit Account No. 03-1952 referencing (070702007900).

Dated: February 9, 2007

Respectfully submitted,

By 

Raj S. Dave

Registration No.: 42,465

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ALTERNATIVE TO PTO/SB/08A/B (09/06)

<b>Substitute for form 1449/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/750,315
				Filing Date	December 30, 2003
				First Named Inventor	Andrew A. BERLIN
				Art Unit	1634
				Examiner Name	R. T. Crow
Sheet	1	of	2	Attorney Docket Number	070702007900

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	1.	US-4,683,195	07-28-1987	Mullis et al.	
	2.	US-4,683,202-A	07-28-1987	Mullis	
	3.	US-4,800,159	01-24-1989	Mullis et al.	
	4.	US-4,962,037	10-09-1990	Jett et al.	
	5.	US-5,038,853	08-13-1991	Callaway et al.	
	6.	US-5,126,022	06-30-1992	Soane et al.	
	7.	US-5,171,132	12-15-1992	Miyazaki et al.	
	8.	US-5,227,556	07-13-1993	Benton et al.	
	9.	US-5,271,724	12-21-1993	Van Lintel	
	10.	US-5,401,511	03-28-1995	Margalit	
	11.	US-5,405,737	04-11-1995	Shibata et al.	
	12.	US-5,405,766	04-11-1995	Kallury et al.	
	13.	US-5,603,872	02-18-1997	Margalit	
	14.	US-5,610,287	03-11-1997	Nikiforov et al.	
	15.	US-5,705,018	01-06-1998	Hartley	
	16.	US-5,867,266	02-02-1998	Craighead	
	17.	US-5,919,622	07-06-1999	Macho et al.	
	18.	US-5,986,076	11-16-1999	Rothschild et al.	
	19.	US-6,054,263	04-25-2000	Danssaert et al.	
	20.	US-6,090,389	07-18-2000	Chen	
	21.	US-6,136,543	10-24-2000	Anazawa et al.	
	22.	US-6,180,372-B1	01-30-2001	Franzen et al.	
	23.	US-6,214,246	04-10-2001	Craighead	
	24.	US-6,225,068	05-01-2001	Wolfrum	
	25.	US-6,263,286	07-17-2001	Gilmanshin et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	MM-DD-YYYY			
	26.	WO-94/05414	03-17-1994	University of California		

\*EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author ( in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	27.	Berger and Kimmel, eds. (1987). <u>Methods in Enzymology Volume 152: Guide to Molecular Cloning Techniques</u> Academic Press, Inc.: New York City, NY, pp. v-xi.	
	28.	Braslavsky et al. (2003). "Sequence information can be obtained from single DNA molecules," <i>PNAS</i> 100(7):3960-3964.	
	29.	Brown et al. (1994). "Biotinylated and Cysteine-Modified Peptides as Useful Reagents for	

Examiner Signature		Date Considered	
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va- 193069

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/750,315
				Filing Date	December 30, 2003
				First Named Inventor	Andrew A. BERLIN
				Art Unit	1634
				Examiner Name	R. T. Crow
Sheet	2	of	2	Attorney Docket Number	070702007900

		Studying the Inhibition of Cathepsin G," <i>Analytical Biochemistry</i> 217:139-147.	
	30.	Effenhauser et al. (1994). "High-Speed Separation of Antisense Oligonucleotides on a Micromachined Capillary Electrophoresis Device," <i>Analytical Chemistry</i> 66:2949-2953.	
	31.	Goodman and Tippin. (2000). "The Expanding Polymerase Universe," <i>Nature Reviews: Molecular Cell Biology</i> 1:101-109.	
	32.	Harrison et al. (1993). "Micromachining a Miniaturized Capillary Electrophoresis-Based Chemical Analysis System on a Chip," <i>Science</i> 261:895-897.	
	33.	Holmstrom et al. (1993). "A Highly Sensitive and Fast Nonradioactive Method for Detection of Polymerase Chain Reaction Products," <i>Analytical Biochemistry</i> 209:278-283.	
	34.	Lee and Meisel. (1982). "Adsorption and Surface-Enhanced Raman of Dyes on Silver and Gold Sols," <i>Journal of Phys. Chem.</i> 86: 3391-3395.	
	35.	Richter et al. (1991). "A micromachined electrohydrodynamic (EHD) pump," <i>Sensors and Actuators A</i> 29:159-168.	
	36.	Sambrook et al. (1989). <u>Molecular Cloning: A Laboratory Manual, 2nd Ed.</u> Cold Spring Harbor Laboratory Press: Cold Spring Harbor, NY, pp. xi-xxxviii Table of Contents.	
	37.	Siegel, Benjamin M. (1987). "Ion-Beam Lithography," Chapter 5 <i>In VLSI Electronics Microstructure Science, Volume 16: Lithography for VLSI</i> . Einspurch and Watts, eds. Academic Press, Inc.: New York City, NY, pp.147-227.	
	38.	Townsend and Tipson, eds. (1978). <u>Nucleic Acid Chemistry: improved and new synthetic procedures, methods, and techniques, Part One.</u> John Wiley & Sons, Inc.: New York City, NY, pp. v-xv Table of Contents.	
	39.	Woolley and Mathies. (1994). "Ultra-high-speed DNA fragment separations using microfabricated capillary array electrophoresis chips," <i>PNAS</i> 91:11348-11352.	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
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